WHAT IS CLAIMED IS:

1. An active matrix liquid crystal display device comprising:

a first substrate and a second substrate, at least one of the first and second substrates being transparent;

a liquid crystal layer put between the first and second substrates;

a color filter,.

said first substrate including a plurality of scanning lines;

a plurality of signal lines crossing the scanning lines in a matrix manner;

a plurality of thin film transistors formed at intersections of the scanning lines and signal lines, respectively;

a pixel electrode connected to said plurality of thin film transistors,

said second substrate including a counter electrode,

liquid crystal molecules being driven by an electric field between said pixel electrode and said counter electrode to thereby make display, wherein

said color filter is formed on a passivation film for protecting said thin film transistors;

said pixel electrode is arranged on said color filter and connected to said thin film transistors through a contact hole provided in said passivation film and said

color filter; and

gate insulating layers of said thin film transistors and said passivation film are removed in a light transmission region within pixels surrounded by said scanning lines and said signal lines.

2. An active matrix liquid crystal display device comprising:

a first substrate and a second substrate, at least one of the first and second substrate being transparent;

a liquid crystal layer put between the first and second substrate;

a color filter;

an overcoat layer protecting said color filter, said first substrate including a plurality of scanning lines;

a plurality of signal lines crossing the plurality of scanning lines in a matrix manner;

a plurality of thin film transistors formed at intersections of the scanning lines and the signal lines, respectively;

a pixel electrode connected to said thin film transistors, said second substrate including a counter electrode, liquid crystal molecules being driven by an electric field between said pixel electrode and said counter electrode to thereby make display, wherein

said color filter is formed on a passivation film for protecting said thin film transistors;

said overcoat layer is formed on said color filter;

said pixel electrode is arranged on said overcoat layer and connected to said thin film transistors through a contact hole provided in said passivation film, said color filter and said overcoat layer; and

gate insulating layers of said thin film transistors and said passivation film are removed in a light transmission region within pixels surrounded by said scanning lines and said signal lines.

3. An active matrix liquid crystal display device according to claim 1 ~~or 2~~,

wherein the color filter around said contact hole is thinner than the color filter in said light transmission region.

4. An active matrix liquid crystal display device according to claim 1 ~~or 2~~,

wherein said color filter consists of an organic film, a difference in level generated on a surface of the organic film being not more than 0.3 μm.

5. An active matrix liquid crystal display device according to claim 1 ~~or 2~~,

wherein said color filter is made of a photosensitive acrylic resin having pigments dispersion property.

6. A method of manufacturing an active matrix liquid crystal display device, the method comprising the steps of:

forming a plurality of scanning lines on a first substrate;

forming a plurality of signal lines crossing the plurality of scanning lines in a matrix manner;

forming a plurality of thin film transistors at intersections of the plurality of scanning lines and the plurality of signal lines, respectively;

forming a pixel electrode connected to said thin film transistors;

forming a counter electrode on a second substrate;

injecting liquid crystal between said first substrate and said second substrate and sealing the liquid crystals,

wherein said method further comprising the steps of:

forming a passivation film to protect each of said thin film transistors;

removing part of a gate insulating layer and said passivation film of each of said tin film transistors in a region surrounded by said signal lines and said scanning lines;

forming a color filter made of a photosensitive color resist; and

forming a transparent conductive film.

7. A method of manufacturing an active matrix liquid

crystal display device, the method comprising the steps of:

forming a plurality of scanning lines on a first substrate;

forming a plurality of signal lines crossing the plurality of scanning lines in a matrix manner;

forming a plurality of thin film transistors at intersections of the plurality of scanning lines and the plurality of signal lines, respectively;

forming a pixel electrode connected to said thin film transistors;

forming a counter electrode on a second substrate;

injecting liquid crystal between said first substrate and said second substrate and sealing the liquid crystals,

wherein said method further comprising the steps of:

forming a passivation film to protect each of said thin film transistors;

removing part of a gate insulating layer and said passivation film of each of said tin film transistors in a region surrounded by said signal lines and said scanning lines;

forming a color filter made of a photosensitive color resist;

forming an overcoat layer on said color filter;

patterning said overcoat layer;

forming a contact hole by patterning said color filter while using said overcoat layer as a mask; and

forming a transparent conductive film.